

ECAT Pre General Science Physics Chapter 8 Waves

| Sr | Questions | Answers Choice |
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| 1 | The characteristic of a body executing S.H.M is that its acceleration is | A. inversely proportional to displacement B. directly proportional to displacement C. independent of displacement D. equal to zero |
| 2 | Resonance occurs when one of the natural frequencies of vibration of the forced or driven harmonic oscillator | A. greater than the frequency of applied force B. equal to the frequency of applied force C. less than the frequency of applied force D. all of them |
| 3 | Which of the following is/are example/s if mechanical waves i.e. waves generated in _____: | A. Rope B. Coil of spring C. Water D. All of them |
| 4 | The waves produced in a microwave oven have frequency | A. 2450 Hz B. 2450 K Hz C. 2450 M Hz D. 2450 G Hz |
| 5 | Which one of the following is an example of resonance | A. swing B. tuning a radio C. microwave oven D. all of them |
| 6 | When a body is performing S.H.M., its acceleration is | A. inversely proportional to the displacement B. directly proportional to the applied force C. directly proportional to the amplitude D. directly proportional to the displacement but in opposite direction |
| 7 | The process in which energy is dissipated from the oscillating system is known as | A. resonance B. interference C. diffraction D. damping |
| 8 | In transverse waves, the individual particles of the medium move: | A. In circles B. Perpendicular to the direction of level C. Parallel to the direction of level D. None of these |
| 9 | Which of the following is an example of a S.H.M? | A. motion of a projectile B. motion of a train along a circular path C. motion of swing D. electrons revolving around the nucleus |
| 10 | The velocity of sound in air depends upon | A. Density and elasticity of gas B. Pressure C. Wavelength D. Amplitude and frequency of sound |
| 11 | A swing has | A. one natural frequency B. two natural frequencies C. three natural frequencies D. four natural frequencies |
| 12 | Which of the following is not mechanical wave? | A. Sound wave B. Light wave C. wave produced in spring D. None of them |
| | | A. Solids |

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| 13 | Transverse waves can be set up: | B. Liquids C. Gases D. All of them |
| 14 | In compressional wave, the layer of medium having reduced pressure is called: | A. Compression B. Elasticity C. Node D. Rarefaction |
| 15 | Smaller the damping, greater will be the | A. frequency B. wavelength C. amplitude D. none of them |
| 16 | Time period of a simple pendulum depends upon the | A. length of the pendulum B. acceleration due to gravity C. none of them D. both of them |
| 17 | A wave, which transfer energy by moving away from the source of disturbance is called a | A. progressive wave B. travelling wave C. both of them D. none of them |
| 18 | When half of the cycle of a body executing S.H.M is completed, then the phase of the vibration will be | A. 45° B. 90° C. 135° D. 180° |
| 19 | If the amplitude of sound is doubled and the frequency reduced to one-fourth, the intensity of sound at the same point will be | A. Increasing by a factor of 2 B. Decreasing by a factor of 2 C. Decreasing by a factor of 4 D. Unchanged |
| 20 | The resonance will be sharp, if the amplitude decreases rapidly at a frequency | A. equal to the resonant frequency B. slight different from the resonant frequency C. greatly different from the resonant frequency D. any one of them |